

Attorney Docket No.: DEX-0054
Inventors: Robbins et al.
Serial No.: 09/426,548
Filing Date: October 22, 1999
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This listing of the claims will replace all prior versions and listings of claims in the application:

Listing of the claims:

Claim 1: (previously canceled)

Claim 2: (currently amended) A method of diagnosing hereditary non-polyposis colorectal cancer in a patient comprising:

- (a) obtaining a DNA or RNA sample from a patient; and
- (b) screening the DNA or RNA sample with ~~the an~~ oligonucleotide probe ~~of claim 9 complementary to a hMLH1 mutant 1, hMSH2 mutant 1, hMSH2 mutant 2, or hMSH2 mutant 3~~ to detect a hMLH1 mutant 1, a hMSH2 mutant 1, a hMSH2 mutant 2, or a hMSH2 mutant 3, wherein binding of the oligonucleotide probe to the DNA or RNA sample is indicative of the presence of the hMLH1 mutant 1, the hMSH2 mutant 1, the hMSH2 mutant 2, or the hMSH2 mutant 3 and hereditary non-polyposis colorectal cancer.

Claim 3: (currently amended) A method for predicting susceptibility of a patient to developing hereditary non-polyposis colorectal cancer comprising:

- (a) obtaining a DNA or RNA sample from a patient; and
- (b) screening the DNA or RNA sample with ~~the an~~ oligonucleotide probe ~~of claim 9 complementary to a hMLH1 mutant~~

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1, hMSH2 mutant 1, hMSH2 mutant 2, or hMSH2 mutant 3 to detect a hMLH1 mutant 1, a hMSH2 mutant 1, a hMSH2 mutant 2, or a hMSH2 mutant 3, wherein binding of the oligonucleotide probe to the DNA or RNA sample is indicative of the presence of the hMLH1 mutant 1, the hMSH2 mutant 1, the hMSH2 mutant 2, or the hMSH2 mutant 3 and hereditary non-polyposis colorectal cancer.

Claims 4-8 (previously canceled)

Claim 9: (currently canceled)